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PHOTOGRAPHIC INTERPRETATION REPORT



**[REDACTED] COPY**  
**KH-4 MISSION 1037-1**  
**8-12 NOVEMBER 1966**

**PART I**

**[REDACTED]**  
NOVEMBER 1966  
COPY 195  
37 PAGES

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Declass Review by NGA/DOD

GROUP 1 EXCLUDED FROM  
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### PREFACE

THIS IS THE FIRST AND ONLY OAK REPORT ON MISSION 1037-1 AND PROVIDES INFORMATION ON THE HIGHEST PRIORITY COMMITTEE ON OVER-HEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES. AN ALPHABETIC LISTING OF COUNTRY CODES APPEARS ON THE INSIDE OF THE BACK COVER.

SELECTED PHOTOGRAPHIC REFERENCES FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH), D FOR DESCENDING (NORTH-TO-SOUTH) OR M FOR A MIXED ASCENDING AND DESCENDING PASS. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME NUMBER TO WHICH THEY APPLY. THIS GRID IS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), S (SNOW), O (OBLIQUITY), SD (SEMIDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF PHOTOGRAPHIC COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS INDICATED BY ST (STEREO), NS (NON-STEREO), OR PS (PARTIAL STEREO).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS. MOREOVER, RECIPIENTS ARE CAUTIONED THAT THE IDENTIFICATION OF TARGETS IS BASED PRIMARILY ON PHOTOGRAPHY AND DOES NOT CONSTITUTE A FINISHED INTELLIGENCE JUDGMENT.

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## **Highlights**

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HIGHLIGHTS1. MISSILE ACTIVITY

FIVE OF THE 25 KNOWN DEPLOYED ICBM COMPLEXES ARE COVERED BY PHOTOGRAPHY. MAJOR PORTIONS OF PERM AND TATISHCHEVO ARE CLEAR. DROVYANAYA, OLOVYANNAYA, AND YOSHKAR-OLA ARE IDENTIFIED ONLY.

THE TYURATAM MISSILE TEST CENTER, USSR, IS PARTIALLY COVERED BY ONE PASS OF PHOTOGRAPHY OF POOR-TO-GOOD INTERPRETABILITY. ALL LAUNCH AREAS ARE COVERED, HOWEVER, SEVERAL ARE IDENTIFIED ONLY. AT LAUNCH GROUP 1, OF PARTICULAR INTEREST IS THE MOST RECENTLY IDENTIFIED LAUNCH SITE 17 WHICH CONSISTS OF 3 LAUNCH SILOS UNDER CONSTRUCTION, EACH IN A U-SHAPED EXCAVATION SIMILAR TO EXCAVATIONS AT TYPE IIIC SINGLE SILOS. SILO CORINGS, FEET IN DIAMETER, ARE PRESENT IN 2 OF THE 3 EXCAVATIONS. WITH THESE ADDITIONS, THE CURRENT TOTAL OF LAUNCHERS AT THE TYURATAM MISSILE TEST CENTER IS 58.

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THE EXISTENCE OF AN 11TH LAUNCH GROUP AT TATISHCHEVO IS CONFIRMED BY THE IDENTIFICATION OF A TYPE IIID SINGLE SILO CONTROL SITE. DECEPTIVE MEASURES ARE EVIDENT AT ALL THE COMPLETED SITES. THE CURRENT COUNT OF ICBM LAUNCHERS AT DEPLOYED COMPLEXES (THE FIGURE IN PARENTHESIS INDICATES THE NUMBER OF POSSIBLE LAUNCHERS AND IS NOT INCLUDED IN TOTALS) IS AS FOLLOWS --

TYPE IIIC	130 (2)
TYPE IIID	359 (23)
SUBTOTAL	489 (25)
OTHER LAUNCHERS	228
TOTAL	717 (25)

AT THE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR, ONLY THE SAM LAUNCH COMPLEX IS COVERED BY CLEAR, STEREO PHOTOGRAPHY. SHUANG-CHENG-TZU, CHINA AND SARY-SHAGAN AND EMBA, USSR ARE NOT COVERED.

AT THE VOLGOGRAD PROBABLE LONG RANGE SAM LAUNCH COMPLEX, USSR, BETWEEN PHOTOGRAPHIC COVERAGE OF [ ] AND THE PRESENT MISSION, THE LAUNCH POSITIONS, INCLUDING THE REVETMENT WALLS, OF LAUNCH SITE B HAVE BEEN REORIENTED. THIS CHANGE GIVES THE COMPLEX AN APPEARANCE SIMILAR TO THE COMPLEXES AT KIMRY AND PERESLAVL-ZALESSKY. THE DISTANCE FROM THE LAUNCH AREA TO THE TRACKING/GUIDANCE FACILITY IS SLIGHTLY MORE THAN HALF THE DISTANCES DETERMINED AT OTHER COMPLEXES.

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NORTH VIETNAM IS COVERED BY 2 PASSES OF PHOTOGRAPHY. ONE PASS IS ESTIMATED TO BE 40 PERCENT CLOUD COVERED AND THE OTHER IS ESTIMATED TO BE 80 PERCENT CLOUD COVERED. SEVENTY-FOUR OF THE 137 KNOWN SA-2 SITES ARE OBSERVED. NO NEW SAM INSTALLATIONS ARE IDENTIFIED.

## 2. AIRFIELD ACTIVITY

ENGELS AIRFIELD IS THE ONLY LONG RANGE BOMBER BASE COVERED IN THE USSR. AIRCRAFT OBSERVED INCLUDE ONE PROBABLE BLINDER AND 34 BISON. THIS IS THE FIRST IDENTIFICATION OF A BLINDER AIRCRAFT AT THIS FIELD.

## STATUS OF TARGET READOUT

THIS OAK REPORTS ON 70 COMOR TARGETS.

## TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY OBSERVED ON THIS MISSION AND NPIC CURRENT MISSILE LISTINGS IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES --

TABLE 1 -- SOVIET ICBM DEPLOYMENT  
TABLE 2 -- TYURATAM MISSILE TEST CENTER  
TABLE 3 -- SOVIET MRBM AND IRBM DEPLOYMENT  
TABLE 4 -- SAM AND ABM DEPLOYMENT  
TABLE 5 -- DATE/TIME OF PHOTOGRAPHIC PASSES

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TABLE 1. SOVIET ICBM DEPLOYMENT

COMPLEX	TYPE I	TYPE II	TYPE III	TYPE IIIC		TYPE IIID		New Positions this Mission		Total Launch Positions	Launch Groups Identified To Date	
	A&B	A-D	A&B									
	Silos Launchers	Silos Launchers	Silos Launchers	Silos Launchers	Complete	Silos Launchers	Complete	IIIC	IIID		IIIC	IIID
ALEYSK				17	5					17	3	
DOMBAROVSKIY				24(1#)	6					24(1#)	4	
☆ DROVYANAYA		3 6	3 9			47(1#)	20			62(1#)		5
GLADKAYA		2 4	1 3			43(1#)	6			50(1#)		5
IMENI GASTELLO				23	7					23	4	
ITATKA		3 6								6		
KARTALY				23	6					23	4	
KOSTROMA		6 12	1 3			5(2#)				20(2#)		2
KOZELSK		3 6	2 6			19 (4#)				31(4#)		2
NOVOSIBIRSK		3 6	2 6							12		
☆ OLOVYANNAYA			3 9			75	18			84		8
OMSK			1 3							3		
☆ PERM		5 10	1 3			36(9)	4			49(9)		4
PLESETSK*	5 8	4 8	1 3							19		
SHADRINSK			3 9							9		
SVOBODNYI		7 14	1 3			30(1)				47(1)		4
☆ TATISHCHEVO						95(4)	29		1	95(4)		11
TEYKOVO		6 12								12		
TYUMEN		2 4								4		
UZHUR				22(1#)	7					22(1#)	4	
VERKHNYAYA SALDA		7 14	2 6							20		
VEDROVO		6 12	2 6			9(1#)				27(1#)		2
☆ YOSHKAR-OLA		6 12								12		
YURYA		8 16	3 9							25		
ZHANGIZ-TOBE				21	6					21	4	
TOTALS	5 8	71 142	26 78	130 (2#)	37	359(23)	77		1	717(25)	23	43

\*DOES NOT INCLUDE 2 SSM POSITIONS AT SITE 13 nor 10 POSSIBLE SILOS OF UNIDENTIFIED TYPE.

☆ COVERED THIS MISSION

(H) POSSIBLE. THE POSSIBLE SITES ARE NOT INCLUDED IN THE TOTAL COUNT.

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TABLE 2. TYURATAM MISSILE TEST CENTER

																					Totals				
Launcher Designation		A1	A2	A3	B1	B2	C1	C2	C3	D1	D2	E1	E2	E3	F	G1	G2	G3	G4	G5	G6	Soft		Hard	
		U/C																				U/C	Comp	U/C	Comp
Soft	U/C																								
	Comp	1	1	1	1	1	1	1				1	1	1			1	1	1	1	1	1		17	
Hard	U/C																								
	Comp									3	3				3										
Launcher Designation		H1	H2	I1	I2	I3	I4	I5	I6	J1	J2	K1	K2	K3	L1	L2	L3	L4	L5	L6	L7				
Soft	U/C									1M	1M											2			
	Comp	1	1																				2		
Hard	U/C				1E	1E			1E															3	
	Comp			1			1	1				1	1	1	1	1	1	1	1	1	1				13
Launcher Designation		L8	L9	L10	M1	M2	M3	N1	N2	N3															
Soft	U/C																								
	Comp																								
Hard	U/C				1E	1E	1E																	3	
	Comp	1	1	1				1	1	1														6	
Launcher Designation		I7																							
New Sites	Soft																								
	Hard	3E																						3	
																					Total	2	19	9	28
																					by Interpretable Photography				
																					Grand Total . . . 58 Launchers				



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## **Missiles**

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MISSILES

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VERKHNYAYA SALDA ICBM COMPLEX

UR 5802N 06024E

THE COMPLEX IS NOT COVERED BY PHOTOGRAPHY. PHOTOGRAPHY OF FAIR INTERPRETABILITY REVEALS NO NEW MISSILE FACILITIES IN THE CLOUD-FREE PORTIONS OF THE SW HALF OF THE SEARCH AREA COVERED.

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TYURATAM MISSILE TEST CENTER

UR 4538N 06317E

THE CENTER IS COVERED ON ONE PASS OF PHOTOGRAPHY OF POOR-TO-GOOD INTERPRETABILITY. ALL LAUNCH AREAS ARE COVERED, BUT SEVERAL CAN BE IDENTIFIED ONLY. THE

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AT LAUNCH GROUP I, THE NEW LAUNCH SITE, 17, REPORTED ON [REDACTED] IS NOW PARTIALLY SECURED BY DOUBLE FENCING AND APPEARS TO CONSIST OF 3 TYPE IIIC U-SHAPED EXCAVATIONS LINED UP ON AN AXIS OF APPROXIMATELY [REDACTED] THE 2 SOUTHERNMOST EXCAVATIONS CONTAIN CORINGS, AND THE NORTHERNMOST CONTAINS AN UNIDENTIFIED CIRCULAR OBJECT. THE DIAMETER OF THE CORING IN THE CENTER EXCAVATION, WHICH IS THE MOST SHARPLY DEFINED, IS APPROXIMATELY [REDACTED] SPACING BETWEEN THE 2 CORINGS AND BETWEEN THE CENTER CORING AND THE UNIDENTIFIED OBJECT IN THE NORTHERN EXCAVATION IS APPROXIMATELY 400 FT. THE 3 EXCAVATIONS MEASURE 80 BY 120 FT, 85 BY 110 FT, AND 90 BY 110 FT.

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NO NEW MISSILE FACILITIES OBSERVED IN THE CLOUD-FREE PORTIONS OF THE EASTERN 70 PERCENT OF THE 50-NM RADIUS SEARCH AREA. THE WESTERN 30 PERCENT IS NOT COVERED.

(SEE ATTACHMENT)

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YOSHKAR-OLA ICBM COMPLEX

UR 5633N 04801E

THE COMPLEX IS COVERED BY ONE PASS OF PHOTOGRAPHY WITH HEAVY CLOUD COVER. THE COMPLEX SUPPORT FACILITY CAN BE IDENTIFIED ONLY AND ALL OF THE MISSILE SITES ARE CLOUD COVERED.

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NO NEW MISSILE ACTIVITY OBSERVED IN THE CLOUD-FREE  
PORTIONS OF THE SEARCH AREA COVERED BY PHOTOGRAPHY.

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DROVYANAYA ICBM COMPLEX

UR 5131N 11300E

THE COMPLEX IS COVERED BY 2 PASSES OF PHOTOGRAPHY OF  
POOR INTERPRETABILITY. ALL COMPONENTS OF THE COMPLEX  
CAN BE IDENTIFIED ONLY.

THE ENTIRE SEARCH AREA IS COVERED. NO NEW MISSILE  
FACILITIES ARE OBSERVED.

PERM ICBM COMPLEX

UR 5742N 05619E

THE ENTIRE SEARCH AREA IS COVERED BY 2 PASSES OF  
PHOTOGRAPHY OF POOR INTERPRETABILITY. ALL 51 LAUNCH  
SITES ARE OBSERVED, OF WHICH 45 ARE SINGLE SILO TYPE  
IIID SITES. FORTY OF THE 45 SINGLE SILO SITES CAN BE  
IDENTIFIED ONLY. NO SIGNIFICANT ACTIVITY IS OBSERVED.

POSSIBLE LAUNCH SITE 53 IS NO LONGER CONSIDERED TO BE A  
VALID SITE AND IS DROPPED FROM NPIC LISTINGS.

NO NEW MISSILE FACILITIES ARE OBSERVED.

OLOVYANNAYA ICBM COMPLEX

UR 5049N 11550E

THE ENTIRE SEARCH AREA IS COVERED BY ONE PASS OF  
PHOTOGRAPHY WITH HEAVY CLOUD COVER. ALL OF THE LAUNCH  
SITES, THE COMPLEX SUPPORT FACILITY, AND THE  
RAIL-TO-ROAD TRANSFER POINT CAN BE IDENTIFIED ONLY.  
CLOUDS PRECLUDE A SEARCH FOR ANY ADDITIONAL MISSILE  
ACTIVITY.

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TATISHCHEVO ICBM COMPLEX

UR 5140N 04534E

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THE SEARCH AREA IS COVERED ON ONE PASS OF PHOTOGRAPHY. FIVE PERCENT OF THE NORTH EDGE AND 5 PERCENT OF THE EAST EDGE OF THE SEARCH AREA ARE CLOUD COVERED.

ONE NEW CONTROL SITE, SITE 124, IS IDENTIFIED IN LAUNCH GROUP K, APPROXIMATELY 25 NM ENE OF THE COMPLEX SUPPORT FACILITY AT 51-51N 046-08E. THE SITE IS IN AN EARLY STAGE OF CONSTRUCTION. THE LAUNCH SITE SUPPORT AREA CONTAINS 5 BUILDINGS AND 3 MORE BUILDINGS UNDER CONSTRUCTION. EXCAVATIONS ARE IN PROGRESS IN THE SITE AREA.

POSSIBLE LAUNCH SITE 79 CAN NO LONGER BE ASSOCIATED WITH MISSILE ACTIVITY AND IS BEING DROPPED FROM NPIC LISTINGS.

NO OTHER MISSILE ACTIVITY OBSERVED. SITE DECEPTION IS BEING EMPLOYED AT ALL COMPLETED LAUNCH SITES.

(SEE ATTACHMENT)

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KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR

UR 4835N 04545E

THE CENTER IS COVERED BY 2 PASSES OF PHOTOGRAPHY. PASS [ ] COVERS THE ENTIRE SAM LAUNCH COMPLEX WITH CLEAR, STEREO PHOTOGRAPHY. [ ] IS CLOUD COVERED OVER THE SSM AND SAM LAUNCH COMPLEXES.

NO CHANGE OBSERVED ON [ ] IN THE FORMER ROCKET LAUNCH FACILITIES, A PORTION OF THE TEST AND SUPPORT COMPLEX, OR THE NEW, HIGH RESOLUTION INTERFEROMETER.

APPROXIMATELY 60 PERCENT OF THE WESTERN PORTION OF THE 50-NM SEARCH AREA IS COVERED ON [ ]

THE SOUTHWESTERN 50 PERCENT OF THE 50-NM SEARCH AREA IS COVERED BY CLEAR, STEREO PHOTOGRAPHY ON [ ] NO NEW MISSILE FACILITIES ARE OBSERVED.

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HA NOI SAM SEARCH

VN 2102N 10551E

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THE WESTERN 40 PERCENT OF THE 60-NM SEARCH AREA IS COVERED BY 80 PERCENT CLOUD-COVERED PHOTOGRAPHY ON PASS

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THE EASTERN 50 PERCENT OF THE AREA IS COVERED BY 30 PERCENT CLOUD-COVERED PHOTOGRAPHY ON NO NEW SAM INSTALLATIONS ARE OBSERVED.

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LAD CAI SAM SEARCH

VN 2229N 10359E

APPROXIMATELY 80 PERCENT OF THE 60-NM SEARCH AREA IS COVERED BY 70 PERCENT CLOUD-COVERED PHOTOGRAPHY. NO NEW SAM INSTALLATIONS CAN BE IDENTIFIED.

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DIEN BIEN PHU SAM SEARCH

VN 2123N 10301E

THE EASTERN HALF OF THE 60-NM SEARCH AREA IS COVERED BY 70 PERCENT CLOUD-COVERED PHOTOGRAPHY. NO NEW SAM INSTALLATIONS CAN BE IDENTIFIED.

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VINH SAM SEARCH

VN 1840N 10540E

APPROXIMATELY 5 PERCENT OF THE NORTHWESTERN PORTION OF THE 60-NM SEARCH AREA IS COVERED BY 75 PERCENT CLOUD-COVERED PHOTOGRAPHY ON THE EASTERN 70 PERCENT OF THE AREA IS COVERED BY 40 PERCENT CLOUD-COVERED PHOTOGRAPHY ON NO NEW SAM INSTALLATIONS CAN BE IDENTIFIED.

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CAO BANG SAM SEARCH AREA

VN 2240N 10615E

THE WESTERN 50 PERCENT OF THE 50-NM SEARCH AREA IS COVERED BY 80 PERCENT CLOUD-COVERED PHOTOGRAPHY ON PASS

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THE EASTERN 50 PERCENT OF THE AREA IS COVERED BY 40 PERCENT CLOUD-COVERED PHOTOGRAPHY ON NO NEW SAM INSTALLATIONS ARE OBSERVED.

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DONG HOI SAM SEARCH AREA

VN 1728N 10637E

THE 60-NM SEARCH AREA IS COMPLETELY COVERED BY 70 PERCENT CLOUD-COVERED PHOTOGRAPHY. NO NEW SAM INSTALLATIONS CAN BE IDENTIFIED.

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NAN-YANG SUSPECT MISSILE ACTIVITY

CH 3248N 11214E

APPROXIMATELY 30 PERCENT OF THE 25-NM SEARCH AREA IS COVERED BY PHOTOGRAPHY WHICH IS 60 PERCENT CLOUD COVERED. NO EVIDENCE OF SSM ACTIVITY OBSERVED.

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PAO-TOU SAM SEARCH AREA

CH 4039N 10958E

ONLY 2 PERCENT OF THE WESTERN PORTION OF THE 50-NM SEARCH AREA IS COVERED ON

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THE ENTIRE 50-NM SEARCH AREA IS COVERED ON CLEAR PHOTOGRAPHY OF GOOD INTERPRETABILITY ON NO NEW SAM ACTIVITY IS OBSERVED. THE KNOWN SAM SITE A02-2 IS COVERED AND IS OCCUPIED.

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TAI-YUAN SAM SEARCH AREA

CH 3759N 11232E

THE ENTIRE 50-NM SEARCH AREA IS COVERED ON 98 PERCENT CLEAR PHOTOGRAPHY OF FAIR INTERPRETABILITY. NO SAM ACTIVITY OBSERVED.

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VOLGOGRAD PROB LONG RANGE SAM LNCH CPLX UR 4822N 04419E

THE COMPLEX REMAINS IN AN EARLY-TO MID-STAGE OF CONSTRUCTION, WITH LITTLE OR NO PROGRESS SINCE MISSION

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THE LAUNCH REVETMENT WALLS AT LAUNCH SITE B HAVE BEEN REALIGNED. PREVIOUSLY, ALL LAUNCH REVETMENTS WERE NEARLY PARALLEL AND ORIENTED SIMILARLY TO THOSE AT FEODOSIYA AND MURASHI PROBABLE LONG RANGE SAM LAUNCH COMPLEXES. AFTER REALIGNMENT, THE REVETMENTS APPEAR ORIENTED SIMILARLY TO THOSE AT KALININ AND PERESLAVL-ZALESSKIY. REVETMENT OUTLINES OF THE PREVIOUS ALIGNMENT ARE VISIBLE AT EACH OF THE VOLGOGRAD POSITIONS. THE SEQUENCE OF CONSTRUCTION IS SOMEWHAT DIFFERENT FROM THAT OBSERVED AT OTHER PROBABLE LONG RANGE SAM LAUNCH COMPLEXES IN THAT NO DISTINCT SITE SERVICE ROADS ARE (OR EVER HAVE BEEN) DISCERNIBLE AT ANY OF THE VOLGOGRAD SITES, ALTHOUGH LAUNCH POSITION REVETMENTS APPEAR COMPLETE OR NEARLY COMPLETE.

COMPLEX COMPONENTS (LAUNCH SITE CONTROL CENTER, TRACKING/GUIDANCE CENTRAL CONTROL, AIR WARNING CONTROL CENTER, AND ASSOCIATED ELECTRONIC AREAS) WHICH ARE USUALLY CONSTRUCTED IN A STANDARD ABOVE GROUND REVETMENT, ARE CONSTRUCTED AS OPEN-END SUBSURFACE VEHICLE/EQUIPMENT REVETMENTS. THIS IS THE FIRST COMPLEX TO UTILIZE THIS TYPE OF REVETMENT.

THE TRACKING/GUIDANCE FACILITY CONSISTS OF 3 MOUNDED RADAR POSITIONS AND A CENTRAL CONTROL. INITIAL MENSURAL DATA INDICATES DISTANCE FROM TRACKING/GUIDANCE FACILITY CENTRAL CONTROL TO LAUNCH SITE B CONTROL CENTER TO BE 1,755 FT OR ABOUT ONE-HALF THE DISTANCE AT OTHER PROBABLE LONG RANGE SAM LAUNCH COMPLEXES.

CONSTRUCTION AT THE MISSILE HANDLING AND SUPPORT AREAS HAS NOT PROGRESSED. THE SUPPORT AREA APPEARS TO BE COMPOSED OF TEMPORARY STRUCTURES AND NUMEROUS PROBABLE TENTS. THE COMPLEX APPEARS SECURED.

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THE AIR WARNING RADAR FACILITY LOCATED 2.5 NM NW OF THE COMPLEX CONSISTS OF 3 MOUNDED RADAR POSITIONS UNDER CONSTRUCTION AND A CENTRAL CONTROL POSITION. TWO PROBABLE ELECTRONIC ASSOCIATED AREAS ARE NEWLY IDENTIFIED NORTH OF THE FACILITY. ONE AREA CONTAINS 2 OPEN-END SUBSURFACE VEHICLE/EQUIPMENT REVETMENTS AND THE OTHER AREA CONTAINS 3 SIMILAR REVETMENTS.

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED AT THE COMPLEX.

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## **Air Facilities**

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AIR FACILITIES

ENGELS AIRFIELD

UR 5129N 04611E

OB -- 34 BISON, 1 PROBABLE BLINDER, 1 PROBABLE CAT/CUB,  
2 PROBABLE CAB, AND 1 PROBABLE COLT.

NO ASM STORAGE AREA OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

ALEKSEYEVKA AIRFIELD

UR 4914N 14011E

OB -- 57 BADGER, 1 CAT/CUB, AND 1 SMALL STRAIGHT-WING.

25X1

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

CHENG-TU/WEN-CHIANG AIRFIELD

CH 3042N 10357E

OB -- 43 SMALL PROBABLE SWEEP-WING.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

NAN-NING AIRFIELD

CH 2249N 10820E

OB -- NONE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

25X1

25X1  
25X1

25X1

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25X1

WU-KUNG AIRFIELD

CH 3417N 10815E

OB -- 2 BADGER, 12 BULL, 1 BEAGLE, 4 PROBABLE FISHBED,  
2 SMALL STRAIGHT-WING, AND AT LEAST 21 SMALL POSSIBLE  
AIRCRAFT.

NO RADAR OBSERVED.

SEE HSI-AN AIRCRAFT ASSEMBLY AND REPAIR PLANT, COMOR NO  
[REDACTED] FOR INDUSTRIAL REQUIREMENTS.

25X1

25X1

HSI-AN AIRCRAFT ASSEMBLY & REPAIR PLANT CH 3417N 10815E

SEE WU-KUNG AIRFIELD, [REDACTED] FOR OB.

25X1

NO NEW CONSTRUCTION OR EVIDENCE OF TYPE OF PRODUCTION  
OBSERVED.

25X1

25X1

HAIPHONG/CAT BI AIRFIELD

VN 2049N 10643E

OB -- NONE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

HAIPHONG/KIEN AN AIRFIELD

VN 2048N 10636E

OB -- 7 SMALL STRAIGHT-WING AND 4 HOOK.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

HANOI/BAC MAI AIRFIELD

VN 2059N 10550E

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25X1

25X1

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25X1

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25X1

HANOI/GIA LAM AIRFIELD

VN 2102N 10553E

IDENTIFICATION ONLY.

25X1

LA-SA AIRFIELD

TI 3030N 09107E

OB -- NONE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

LANG SON AIRFIELD

VN 2150N 10646E

OB -- 5 SMALL STRAIGHT-WING.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

NAN-NING/WU-YU AIRFIELD

CH 2236N 10810E

OB -- 1 PROBABLE CAB AND 27 PROBABLE SMALL AIRCRAFT.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

KEP AIRFIELD

VN 2124N 10616E

OB -- 1 LIGHT STRAIGHT-WING.

CONSTRUCTION CONTINUES ON SUPPORT FACILITIES.

25X1

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25X1  
25X1

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25X1

NING-MING AIRFIELD

CH 2207N 10707E

OB -- 20 SWEPT-WING FIGHTERS AND 8 PROBABLE SWEPT-WING FIGHTERS.

CONSTRUCTION STATUS OF SUPPORT FACILITIES IS UNDETERMINED.

NO RADAR OR RADIO FACILITIES ARE DISCERNIBLE. AT LEAST 8 AAA SITES SURROUND THE FIELD.

25X1

PING-YUAN-CHIEH AIRFIELD

CH 2342N 10350E

OB -- NONE OBSERVED IN CLOUD-FREE AREAS.

STATUS OF CONSTRUCTION AND DETAILS OF SUPPORT FACILITIES CANNOT BE DETERMINED.

25X1

TIEN-YANG AIRFIELD

CH 2344N 10658E

OB -- NONE OBSERVED.

STATUS OF CONSTRUCTION IN THE SUPPORT AREA IS UNDETERMINED.

25X1

KUNG-KA AIRFIELD

TI 2917N 09055E

OB -- NONE OBSERVED.

THE END-CONNECTING LINK AND CROSSOVER LINK ON THE EAST END OF THE AIRFIELD ARE BEING SURFACED. CONSTRUCTION CONTINUES ON THE PARALLEL TAXIWAY. NUMEROUS CONSTRUCTION VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED ON AND ADJACENT TO THE AIRFIELD.

25X1

25X1

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## **Nuclear Energy**

25X2

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**Naval  
Activity/  
Ports**

25X1  
25X1

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25X1

NAVAL ACTIVITY/PORTS

HAI PHONG PORT FACILITIES

VN 2052N 10642E

VESSELS -- 6 DRY CARGO VESSELS (ONE A LARGE HATCH  
POLTAVA/PEREKOP-CLASS) AT 20-52N 106-41E, 1 TANKER WITH  
A PROBABLE BARGE ALONGSIDE IN THE SONG DA BACH 4.1 NM  
EAST OF HAI PHONG AT 20-53N 106-45E, 1 DRY CARGO VESSEL  
IN THE CUA NAM TRIEU 5.7 NM ESE OF HAI PHONG AT 20-50N  
106-47E, AND NUMEROUS SMALLER VESSELS THROUGHOUT THE  
HAI PHONG PORT AREA.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

PAI-LUNG PORT FACILITIES

CH 2131N 10813E

VESSELS -- NONE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

CAM PHA PORT FACILITIES

VN 2102N 10722E

VESSELS -- 2 LARGE DRY CARGO SHIPS AND 10 SMALL CRAFT  
AT 21-01N 107-22E.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

HON GAI PORT FACILITIES

VN 2057N 10705E

VESSELS -- 1 LARGE DRY CARGO VESSEL AT WHARF AT 20-57N  
107-04E, 1 LARGE DRY CARGO VESSEL IN ROADSTEAD AT  
20-56N 107-04E, AT LEAST 14 BARGES, 1 FERRY, 1 FLOATING  
DOCK AT 20-56N 107-05E, AND NUMEROUS SMALL CRAFT. ONE  
S.O.-1-CLASS SC IS AT ILE DU BRANDON (20-53N 107-06E).

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR

25X1

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25X1

25X1  
25X1

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PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

25X1

BEN THUY PORT FACILITIES

VN 1839N 10542E

VESSELS -- 1 CAPSIZED COASTAL FREIGHTER AT 18-38N  
105-42E. EFFORTS TO FLOAT A SWATOW HULL BEACHED  
APPROXIMATELY 1,000 FT NNE OF THE CAPSIZED COASTAL  
FREIGHTER ON THE WEST BANK OF THE SONG CA APPEAR TO BE  
UNDERWAY. THE VESSEL APPEARS TO HAVE MOVED

25X1  
25X1

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

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25X1

**Military  
Activity**

25X1  
25X1

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25X1

MILITARY ACTIVITY

CHU-CHING MILITARY AREA

CH 2531N 10347E

NO NEW MILITARY AREAS OBSERVED. NO COMMUNICATION OR  
ELECTRONIC FACILITIES OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

[REDACTED]

PING-HSIANG AMMUNITION DEPOT

CH 2208N 10645E

NO INDICATION OF BUILDUP OF TROOPS, SUPPLIES, OR POL  
STORAGE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

[REDACTED]

PING-HSIANG ARMY DEPOT

CH 2205N 10645E

NO INDICATION OF BUILDUP OF TROOPS, SUPPLIES, OR POL  
STORAGE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

[REDACTED]

FANG-CHENG ARMY BARRACKS

CH 2146N 10821E

NO INDICATION OF BUILDUP OF TROOPS, SUPPLIES, OR POL  
STORAGE OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

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NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

25X1

LANG SON ARMY BARRACKS

VN 2150N 10645E

NO INDICATION OF TROOP OR SUPPLY BUILDUP OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

LOC BINH ARMY SUPPLY DEPOT

VN 2145N 10656E

NO INDICATION OF TROOP OR SUPPLY BUILDUP OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

BAC GIANG ARMY BARRACKS NE DINH XUYEN

VN 2119N 10615E

IDENTIFICATION ONLY.

TIEN-YANG POSSIBLE MILITARY INSTALLATION CH 2344N 10653E

NO INDICATION OF TROOP OR SUPPLY BUILDUP OBSERVED.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR  
PREVIOUSLY UNREPORTED FEATURES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

25X1

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25X1

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25X1

25X1

25X1

WU-PU-CHIEH ROAD CONSTRUCTION

CH 2314N 10454E

THE ROAD IS OBSERVED INTERMITTENTLY THROUGH SCATTERED CLOUD COVER.

NO NEW CONSTRUCTION, ROADS, TRAILS, OR ROAD IMPROVEMENTS ARE OBSERVED. SMALL SCALE PRECLUDES READOUT OF VEHICLES AND PIECES OF EQUIPMENT.

25X1

HA NOI/LAO CAI RR SEGMENT 2

VN 2200N 10433E

THE ENTIRE RAIL SEGMENT FROM 22-10N 104-21E TO 21-50N 104-45E IS OBSERVED.

NO MILITARY ACTIVITY, NEW CONSTRUCTION, ROLLING STOCK, OR COMMUNICATION FACILITIES OBSERVED.

25X1

HA NOI/LAO CAI RR SEGMENT 1

VN 2220N 10410E

THE RAIL SEGMENT IS OBSERVED FROM 22-10N 104-21E TO 22-22N 104-07E.

NO NEW CONSTRUCTION, COMMUNICATION FACILITIES, MILITARY ACTIVITY, OR RAIL TRAFFIC OBSERVED.

25X1

HA NOI/LAO CAI RR SEGMENT 3

VN 2140N 10456E

THE RAIL SEGMENT IS OBSERVED FROM 21-50N 104-45E TO 21-44N 104-50E.

NO MILITARY ACTIVITY, COMMUNICATION FACILITIES, NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FACILITIES OBSERVED.

25X1

25X1

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25X1

25X1

25X1

HA NOI/PING-HSIANG RR SEGMENT 2

VN 2132N 10627E

THE RAIL SEGMENT IS OBSERVED INTERMITTENTLY FROM 21-34N 106-25E TO 21-16N 106-09E.

NO NEW CONSTRUCTION, COMMUNICATION FACILITIES, OR MILITARY ACTIVITY OBSERVED. AN UNDETERMINED AMOUNT OF ROLLING STOCK IS OBSERVED AT 21-41N 106-40E.

25X1

HA NOI/PING-HSIANG RR SEGMENT 1

VN 2145N 10644E

THE RAIL SEGMENT IS OBSERVED INTERMITTENTLY FROM 21-58N 106-43E TO 21-42N 106-40E.

NO NEW CONSTRUCTION, COMMUNICATION FACILITIES, MILITARY ACTIVITY, OR ROLLING STOCK OBSERVED.

25X1

25X1

HA NOI/PING-HSIANG RR SEGMENT 3

VN 2110N 10604E

THE RAIL SEGMENT IS OBSERVED INTERMITTENTLY FROM 21-22N 106-15E TO 21-01N 105-51E.

NO NEW CONSTRUCTION, COMMUNICATION FACILITIES, MILITARY ACTIVITY, OR RAIL TRAFFIC OBSERVED.

25X1

HA NOI/LAO CAI RR SEGMENT 5

VN 2110N 10548E

THE RAIL SEGMENT IS OBSERVED FROM 21-07N 105-53E TO 21-01N 105-51E.

NO NEW CONSTRUCTION, COMMUNICATION FACILITIES, MILITARY ACTIVITY, OR RAIL TRAFFIC OBSERVED.

25X1

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TOP SECRET

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25X1

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25X1  
25X1  
25X1

KEP/THAI NGUYEN RAILROAD U/C

VN 2130N 10607E

THE RAIL LINE IS OBSERVED INTERMITTENTLY FROM 21-33N  
106-01E TO 21-25N 106-18E.

NO NEW CONSTRUCTION, MILITARY FACILITIES, COMMUNICATION  
FACILITIES, DEFENSES, OR STORAGE FACILITIES OBSERVED.  
APPROXIMATELY 14 RAIL CARS ARE OBSERVED AT 21-29N  
106-10E.

25X1

PING-HSIANG/HA NOI RR SEGMENT 14

CH 2202N 10643E

THE RAIL SEGMENT IS OBSERVED INTERMITTENTLY FROM 21-56N  
106-42E TO 22-06N 106-45E.

SMALL SCALE, CLOUD SHADOW, AND SCATTERED CLOUD COVER  
PRECLUDE DETERMINATION OF NEW CONSTRUCTION,  
COMMUNICATION FACILITIES, MILITARY ACTIVITY, AND  
ROLLING STOCK.

25X1

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TOP SECRET

25X1

## **Complexes**

25X1  
25X1

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25X1

COMPLEXES

NAN-NING COMPLEX

CH 2249N 10819E

NO NEW CONSTRUCTION, CHANGES IN FACILITIES OR LEVEL OF INDUSTRIAL ACTIVITY. NO INDICATIONS OF BUILDUP OF TROOPS, SUPPLIES, OR POL STORAGE OBSERVED.

25X1

PING-HSIANG COMPLEX

CH 2207N 10646E

NO INDICATIONS OF INDUSTRIAL ACTIVITY, INCLUDING POL OR SUPPLY BUILDUP.

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1

DONG DANG RAILROAD YARD

VN 2156N 10641E

NO EVIDENCE OF TROOP OR SUPPLY BUILDUP OBSERVED IN THE COMPLEX. NO DEFENSES OBSERVED.

NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

25X1

BAC GIANG COMPLEX

VN 2117N 10612E

NO CHANGE OBSERVED IN FACILITIES. NO NEW MILITARY INSTALLATIONS OBSERVED.

25X1

CAO BANG MILITARY COMPLEX

VN 2240N 10615E

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25X1

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LANG SON COMPLEX

VN 2151N 10645E

NO EVIDENCE OF UNUSUAL LEVELS OF EQUIPMENT, STORAGE, TROOP MOVEMENT, NEW CONSTRUCTION, OR IMPROVEMENT OF TRANSPORTATION FACILITIES OBSERVED. NO EVIDENCE OF NEW OR PREVIOUSLY UNREPORTED COMMUNICATION FACILITIES.

[REDACTED]

MONG CAI COMPLEX

VN 2132N 10759E

NO EVIDENCE OF UNUSUAL LEVEL OF EQUIPMENT STORAGE OR TROOP MOVEMENT, NEW CONSTRUCTION OR IMPROVEMENT OF TRANSPORTATION FACILITIES, OR UNREPORTED COMMUNICATION FACILITIES OBSERVED. NO VESSELS ARE OBSERVED.

[REDACTED]

TIEN YEN COMPLEX

VN 2119N 10724E

NO NEW CONSTRUCTION, INCREASED MILITARY ACTIVITY, OR COMMUNICATION FACILITIES OBSERVED.

ONE PROBABLE UNIDENTIFIED VESSEL IS IN A SLIP ON THE SOUTH SHORE OF SONG TIEN YEN.

[REDACTED]

BINH LU COMPLEX

VN 2219N 10338E

NO EVIDENCE OF TROOP ACTIVITY OR MILITARY EQUIPMENT, CHANGES IN STORAGE OR HOUSING FACILITIES, ANY SECURITY OR DEFENSES, ACTIVITY ON TRANSPORTATION FACILITIES, OR COMMUNICATION FACILITIES OBSERVED WITHIN 15 NM OF THE COMPLEX.

[REDACTED]

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25X1

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PERM ICBM COMPLEX	UR 5742N 05619E 1
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## **Attachments**

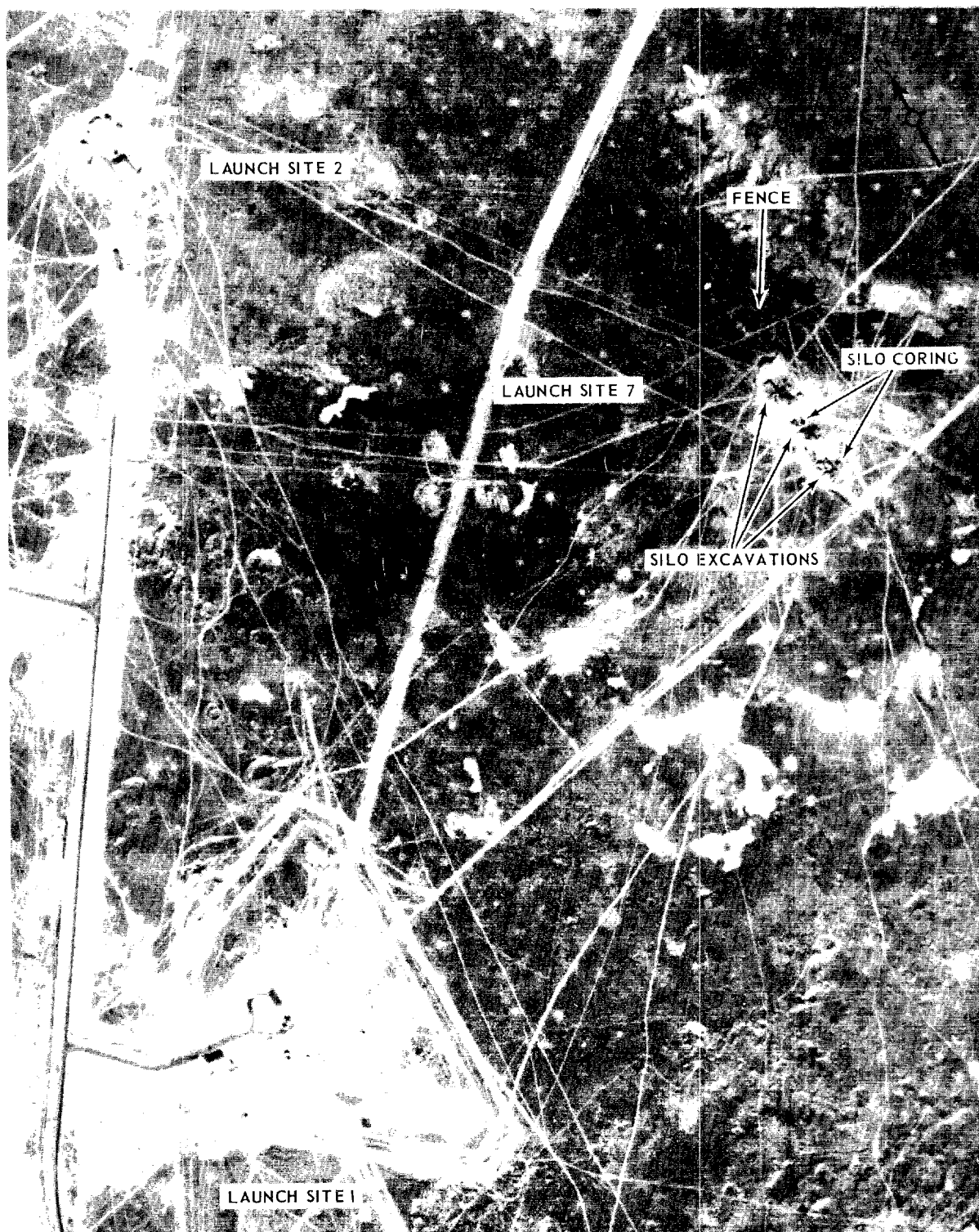
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MISSION 1037-1, 8-12 NOVEMBER 1966

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LAUNCH SITES, LAUNCH GROUP 1, TYURATAM MISSILE TEST CENTER, USSR (COMOR)

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